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COUNTRY	Fast Gormany	DATE DISTR. 8 September 1953
SUBJECT 25X1C	Development of the Jamesm Bridge in the Work fuer Formoldevesen HF for Soviet Use in Formous Carbonyl Broduction	NO. OF PAGES 2
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Pertinent orders placed with the HF Flant in Berlin-Oberschoeneweide by Fomenhov (fru) and Troffrev (fnu) of the SCC Karlshorstindicate that the U.S.R. has an arenthoustarted manufacturing ferrous carbonyl

- Arber the var, amplifying and filtering engineering in dastern Germany depended on imports of formus corrowyl from West Germany which were bespected, however, by destern the describitions. Thlogal imports were poor, the additive ried and the manufaction, the majorial appeared to come from statisfication of the majorial appeared to come from statisfication of the manufacture iron dust in Fast Germany. In view of the importance of the quality of iron dust in quired for telecommunication engineering, hardessor Kersten (fnu) of Jone University, ordered formulate Engineer Candidate Hiller (fnu) to develop a Jaumann bridge. His results led the Soviets to order that these measuring instruments be developed further.
- In January 1951, Engineer Karl Langer of the UP Plant received orders to develop the Januarn bridge functor with special emphasis on the most precise practicable determination of the values of w, h and n (eddy current logses, bysteresis, and after-affect). Nine units were ordered, eight of which were to be for the Seviets. After completing these instruments, which together with all recents were dispatched to Moscow on 28 December 1952, langer was ordered in April 1952 to make the bridge automatic, to refine the process, and to equip the device with an optical and a graphic indicator, Langer was given 125,100 eastwarks. The Soviets sold the first instrument for 12,500 castwarks and allotted an additional 110,000 eastwarks for large for its further development was not to be used prior to late may 1953, in order to avoid intercaption of the work at the end of the first part as a result of a lack of money.

Dr Bildebrand (fnu) and Graducta Engineer Schulz (fnu) of the Treptow Telecommunications Engineering Flunt simultaneously with Langer developed a Jaumann bridge which, however, differed from Langer's design. In September 1952, the first iron dust cores produced in East Germany by the Dralowid Flunt, were subjected to comparison measurements on the Langer bridge in Oberschoeneweide, the Bildebrand-Schulz bridge in Leipzig and the Stiller bridge in Jons. As they furnish didentical results to a

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fraction of a percent, the decision was made that the Larger bridge be constructed. Ten units were to be made for German installations including the Leipzig Telecommunications Engineering Plant, the Gera Condenser Flant, the Dralowid Flant in Teltow, the Ferromagnetic Institute in Jena, the Electrochemical Combine in Bitterfeld, the Leuna Flant, the Gentral Laboratory for Telecommunications in Treptow, the Kabelwerk Obersproe, HF Flant in Oberschoeneweide and the Flectrical Engineering Main Administration., Five units were to be supplied to the Soviets. The delivery was be made by May or June 1953. The Soviets promised that they would place additional orders.

- 5. When the Soviet ferrous-carbonyl production was discussed during the visit of the Czech experts on 3 November 1952, Wiesner (fuu), representative of the Postal Ministry of Czecheslovakia, without disclosing the source of his information, stated that the Soviets had a pressing plant in Stalingrad. It remained undetermined, however, whether from dust was namufactured in the U.S.S.R., although some people believed that ferrous-carbonyl was possibly produced in co-ordination with the nickel carbonyl installation which is based on the Mond process and is located in Petsawo. It was inferred, from the great demand for measuring bridges and the fact that no ferrous-carbonyl was shipped from East Germany to the USSR, that the USSR had no demand.
- 6. As the Leuna Plant produces 35 tons per month, East Germany is in a position to export. The first orders were placed by Czechoslovakia and Foland.

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		of	Wiesner,	who	bel onga	to	tho '	ไขเมื่ล	Stras	nice	olant	in	Prague	-Strasni	.ce ,

25X1A	2.	Comment. A previous report stated that the first experimental
		quantities of ferrous-carbonyl dust would not be made prior to December 1952.

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